

(19) World Intellectual Property
Organization
International Bureau(43) International Publication Date
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number
WO 2005/068289 A3

(51) International Patent Classification⁷: B64C 1/40, (74) Agent: KOPF, KorbInlan; Maiwald Patentanwalts
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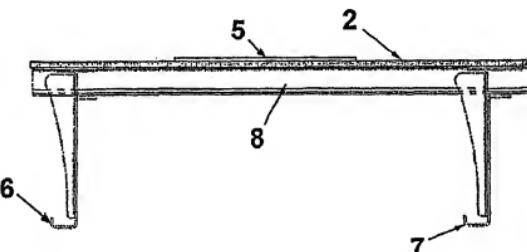
(21) International Application Number: (81) Designated States (unless otherwise indicated, for every
PCT/EP2005/000038 kind of national protection available): AE, AG, AL, AM,
(22) International Filing Date: 5 January 2005 (05.01.2005) AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
(25) Filing Language: English CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
(26) Publication Language: English GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
(30) Priority Data: KG, KP, KR, KZ, LC, LK, LS, LT, LU, LY, MA, MD,
10 2004 001 078.1 5 January 2004 (05.01.2004) DE MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
60/600 105 9 August 2004 (09.08.2004) US PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, SM, SY, TJ,
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(54) Title: FUSELAGE

(88) Date of publication of the international search report:
1 December 2005

[Continued on next page]



(57) Abstract: The fuselage is conceived in such a way as to prevent the spread of flames produced by a source of fire and acting on the fuselage from outside the aircraft environment. The fuselage concept takes into account materials or material combinations that will scarcely allow protection of the cabin area of an aircraft (upon emergency landing) to be violated by flames spreading from outside the aircraft environment, which may facilitate an evacuation of passengers from the aircraft. An aircraft fuselage, whose fuselage structure, in addition to other structural elements that are components of the mechanical strength bracing of the fuselage and help absorb its forces, encompasses an exterior skin (2) consisting of various respective materials, which are designed to be resistant to shear, and incorporated as a bearing element into the mechanical strength bracing (6,7,8) to absorb and transfer the forces and torques acting thereupon. The exterior skin (2) is fabricated from a burn-through resistant semi-finished material consisting of a non-metallic material or a fireproof metallic material, wherein the semi-finished material can be molded through further processing. Also, the exterior skin may be realized by a semi-finished material combining a non-metallic material and a metallic material, wherein the produced exterior skin product is a hybrid material that can be molded and joined through further processing.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/000038A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B64C1/40 B64C1/00 A62C3/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B64C A62C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 919 839 A (BRONZAVIA) 27 February 1963 (1963-02-27) page 1, lines 10-14,30-34,43-47,52-64 page 2, lines 85-98; figures -----	1,8
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X	US 5 154 373 A (SCOTT ET AL) 13 October 1992 (1992-10-13) column 1, line 49 - column 2, line 21 column 2, line 51 - column 3, line 18 column 3, line 48 - column 4, line 31; figures ----- -/-	1,5-7, 13,14

 Further documents are listed in the continuation of box C. Parent family members are listed in annex.

* Special categories of cited documents :

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- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
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T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered inventive because it involves an inventive step which is not present alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the International search 29 July 2005	Date of mailing of the International search report 12.09.2005
Name and mailing address of the ISA European Patent Office, P.B. 5616 Pelenlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, TX. 31 651 epo nl Fax (+31-70) 340-3016	Authorized officer Salentiny, G

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/000038

C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	US 6 286 785 B1 (KITCHEN NICHOLAS DONALD) 11 September 2001 (2001-09-11) column 1, lines 20-35 column 1, line 66 - column 2, line 8 column 2, lines 24-42 column 5, line 43 - column 6, line 21 column 7, lines 19-25 column 11, lines 39-42; figures	2,4,10, 16
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X	DE 202 20 600 U1 (EUROCOPTER DEUTSCHLAND GMBH) 24 December 2003 (2003-12-24) paragraphs '0016!', '0019!', '0021! - '0023!', '0027!', '0030! - '0038!', '0053!', '0054!; figures	2-4,9, 10,16
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6		

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2005/000038

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple Inventions in this International application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/SA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,5,6,7,8,13,14,15

Aircraft fuselage outer skin made of burn-through resistant, either metallic or non-metallic material.

2. claims: 2,3,4,5,6,7,9,10,11,12,13,14,15,16

Aircraft fuselage outer skin made of a hybrid compound, the compound combining a metallic and a non-metallic material.

INTERNATIONAL SEARCH REPORT

Information on patent family members

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